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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) Activated carbon adapted for the treatment of water and having the following characteristics:

- CCl₄ number from 120% to 190%,
- P₂O₅ content at most equal to 2%,
- extraction pH greater than 7,
- bulk density from 0.18 g/ml to 0.32 g/ml, and
- electrical resistivity less than 1.5 ohm.cm.

2. (Original) The activated carbon claimed in claim 1 when it has a BET surface area of at least 2 000 m²/g.

3. (Original) The activated carbon claimed in claim 1 when it has a BET surface area of at least 1 800 m²/g.

4. (Original) The activated carbon claimed in claim 1 when it has an iodine number of at least 1 750 mg/g.

5. (Original) The activated carbon claimed in claim 1 when it has a butane adsorption coefficient of 45% to 75%.

6. (Original) The activated carbon claimed in

claim 1 when it has a ball-pan hardness of at least 65%.

7. (Original) The activated carbon claimed in claim 1 when it has a particle size distribution in which the particle size is less than 4.75 mm and greater than 0.15 mm.

8. (Original) The activated carbon claimed in claim 1 when it is a powder with a particle size less than 212 microns.

9. (Original) The activated carbon claimed in claim 1 when it has a micropore volume of at least 0.50 ml/g and a mesopore volume of at least 0.30 ml/g.

10. (Withdrawn) A process for manufacturing an activated carbon, said process comprising the following stages:

- preparing a precursor activated carbon by chemically activating a starting material with phosphoric acid,
- neutralizing said precursor with an aqueous solution, and
- thermal activation.

11. (Withdrawn) The process claimed in claim 10 wherein said precursor is obtained by chemically activating wood with phosphoric acid.

12. (Withdrawn) The process claimed in claim 10 wherein said precursor has the following characteristics:

- CCl_4 number from 60% to 120%,
- P_2O_5 content from 3% to 12%,
- extraction pH from 1 to 2,
- bulk density from 0.18 g/ml to 0.32 g/ml, and
- electrical resistivity greater than 500 ohm.cm.

13. (Withdrawn) The process claimed in claim 12 wherein said precursor additionally has the following characteristics:

- butane adsorption coefficient 22% to 47%,
- iodine number at least 900 mg/g,
- BET surface area at least 900 m^2/g , and
- ball-pan hardness from 50% to 65%.

14. (Withdrawn) The process claimed in claim 10 wherein said neutralization is carried out with urea or ammonia.

15. (Withdrawn) The process claimed in claim 10 wherein the base/precursor ratio is from 0.1 to 0.3.

16. (Withdrawn) The process claimed in claim 10 wherein the water/precursor ratio is from 1.5 to 2.5.

17. (Withdrawn) The process claimed in claim 10 wherein said neutralization includes drying in order to reduce the water content of said product to less than 10%.

18. (Withdrawn) The process claimed in claim 10 wherein said activation is carried out at a reaction temperature from 800°C to 1 000°C.

19. (Withdrawn) The process claimed in claim 10 wherein said activation is carried out in a furnace in the presence of steam and/or carbon dioxide.

20. (Withdrawn) The process claimed in claim 10 wherein said precursor has a particle size greater than the ASTM No. 70 sieve (212 microns) and further including a particle size grading stage.

Claims 21-23 (Cancelled).

24. (Previously Presented and Withdrawn) In a method for the treatment of water comprising contacting said water with activated carbon, the improvement wherein said activated carbon is the activated carbon of claim 1.

25. (Previously Presented and Withdrawn) The method of claim 24 for removing atrazine from said water, wherein said activated carbon has a BET surface area of at least 2000 m²/g and a butane absorption coefficient of 45% TO 75 %.

26. (Previously Presented and Withdrawn) The method of claim 24 for removing chloramines from said water, wherein said activated carbon has a ball-pan hardness of at least 65%, a micropore volume of at least 0.50 ml/g and a mesopore volume of at least 0.30 ml/g.

27. (New) The method of claim 24 wherein said activated carbon has a BET surface area of at least 2,000 m²/g.

28. (New) The method of claim 27 wherein said activated carbon has a butane absorption coefficient of 45% to 75%.

29. (New) The method of claim 27 wherein said activated carbon has a ball-pan hardness of at least 65%, a micropore volume of at least 0.50 ml/g and a mesopore volume of at least 0.30 ml/g.

30. (new) The activated carbon of claim 1 *in situ* in water.